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## IN THE CLAIMS:

- 1. (Original) A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport in a subject, the method comprising:
  - (a) obtaining a biological sample from the subject; and
  - (b) detecting a polymorphism of a NE transporter gene in a biological sample from the subject, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport.
- 2. (Original) The method of claim 1, wherein the susceptibility of the subject to sub-optimal NE transport is further characterized as susceptibility to orthostatic intolerance.
- 3. (Original) The method of claim 1, wherein the biological sample comprises a nucleic acid sample.
- 4. (Currently Amended) The method of claim 3, A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport in a subject, the method comprising:
  - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
  - (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter polypeptide gene comprises a G to C transversion within NE transporter exon 9, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport.
- 5. (Currently Amended) The method of claim 4, wherein the G to C transversion within exon 9 of the NE transporter gene A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport in a subject, the method comprising:



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- (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
- (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene comprises a G to C transversion within NE transporter exon 9 and encodes a NE transporter polypeptide having a proline moiety at amino acid 457, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport.
- 6. (Original) The method of claim 3, wherein the polymorphism is detected by amplifying a target nucleic acid in the nucleic acid sample from the subject using an amplification technique.
- 7. (Original) The method of claim 6, wherein the polymorphism is detected by amplifying a target nucleic acid in the nucleic acid sample from the subject using an oligonucleotide pair, wherein a first oligonucleotide of the pair hybridizes to a first portion of the NE transporter gene, wherein the first portion includes the polymorphism of the NE transporter gene, and wherein the second of the oligonucleotide pair hybridizes to a second portion of the NE transporter gene that is adjacent to the first portion.
- 8. (Currently Amended) The method of claim 7, wherein the A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport in a subject, the method comprising:
  - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
  - (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene is detected by amplifying a target nucleic acid in the nucleic acid sample from the subject using an oligonucleotide pair,



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az con wherein a first oligonucleotide of the pair hybridizes to a first portion of the NE transporter gene includes including exon 9 and the polymorphism of the NE transporter gene, and wherein the second oligonucleotide of the pair hybridizes to a second portion of the NE transporter gene that is adjacent to the first portion, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport.

- 9. (Original) The method of claim 7, wherein the first and the second oligonucleotides each further comprise a detectable label, and wherein the label of the first oligonucleotide is distinguishable from the label of the second oligonucleotide.
- 10. (Original) The method of claim 9, wherein said label of said first oligonucleotide is a radiolabel, and wherein said label of said second oligonucleotide is a biotin label.
- 11. (Original) The method of claim 3, wherein the polymorphism is detected by sequencing a target nucleic acid in the nucleic acid sample from the subject.
- 12. (Original) The method of claim 11, wherein the sequencing comprises dideoxy sequencing.
- 13. (Original) The method of claim 3, wherein the step of detecting the polymorphism is detected by contacting a target nucleic acid in the nucleic acid sample from the subject with a reagent that detects the presence of the NE transporter polymorphism and detecting the reagent.



14. (Currently Amended) The method of claim 13, A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport in a subject, the method comprising:

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(a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and

(b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene is detected by contacting a target nucleic acid in the nucleic acid sample from the subject with a reagent that detects the presence of the NE transporter polymorphism and detecting the reagent, wherein the reagent detects a G to C transversion within NE transporter exon 9, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport.

- 15. (Currently Amended) The method of claim 13, A method of screening for susceptibility to sub-optimal norepinephrine (NE) transport in a subject, the method comprising:
  - (a) obtaining a biological sample from the subject, wherein the biological sample comprises a nucleic acid sample; and
  - (b) detecting a polymorphism of a NE transporter gene in the biological sample from the subject, wherein the polymorphism of the NE transporter gene is detected by contacting a target nucleic acid in the nucleic acid sample from the subject with a reagent that detects the presence of the NE transporter polymorphism and detecting the reagent, wherein the reagent is an oligonucleotide primer as set forth in SEQ ID NO:9 or SEQ ID NO:10, the presence of the polymorphism indicating the susceptibility of the subject to sub-optimal norepinephrine transport.
- 16. (Original) The method of claim 1, wherein the biological sample comprises a polypeptide sample.
- 17. (Original) The method of claims 1, 2 or 3, wherein the subject is a human subject.

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18-79. (Currently Canceled)